



AL124H, AL424H & AL1024H

Power supply in box

- **AL124H-CP01: Power supply in plastic box 24V-1A**
- **AL424H-CM01E: Power supply in metallic box 24V-4A**
- **AL1024-CM03: Power supply in metallic box 24V-10A**
- **Conform to EN54-4 standard**

AL124H, AL424H and AL1024H power supplies consist of an aluminium radiator support on which the safety transformer and the electronic material of control are assembled.

The thermal dissipation of **AL1024H** is moreover obtained through a fan that enters in function in case of a temperature of the power supply over 45 degrees. Its output voltage is settled during phase of test with a resistive trimmer type CERMET.

The regulation uses the "switching" mode for **AL424H and AL1024H** and the regulation of **AL124H** is linear with **serial regulator**. Power supply modules have an output (protected by fuse) dedicated for buffer battery charging and a TEST input for the checking of their integrity.

Power supply modules are equipped with an electronic control against **short-circuits, overheating**.

An **output relay is available** for the repetition of the mains fault and battery faults.



Common characteristics

- Overheating and short-circuit controls
- Presence mains control output
- Small size
- Delivered in white plastic box
- "Power supply OK" NC contact relay
- Voltage step-down 27V to 12V (option)

AL1024B characteristics

- Internal ventilator
- Power output: 150W, 240W or 300W

Electrical specification

	AL124H	AL424H	AL1024H
Mains supply voltage	230V ~ (-15%, +10%) 50Hz		
Nominal output voltage	27,5Vdc ± 50mV @ 20° with batteries disconnected		
Max capacity recommended for batteries (serial connection)	2 batteries 12V/15Ah	2 batteries 12V/40Ah	2 batteries 12V/72Ah
Maximum current	1A	4A	10A
Limitation current	< 1,5A	< 4,5A	< 12A

Mechanical characteristics

Modules dimensions (mm)	135 x 100 x 70	190 x 110 x 80	230 x 165 x 50
Box dimensions (mm)	300 x 260 x 125	300 x 260 x 125	500 x 420 x 210

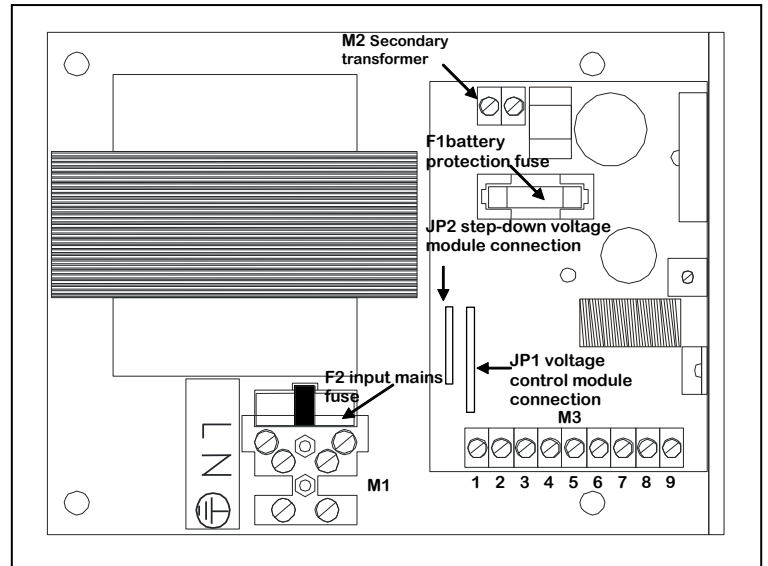


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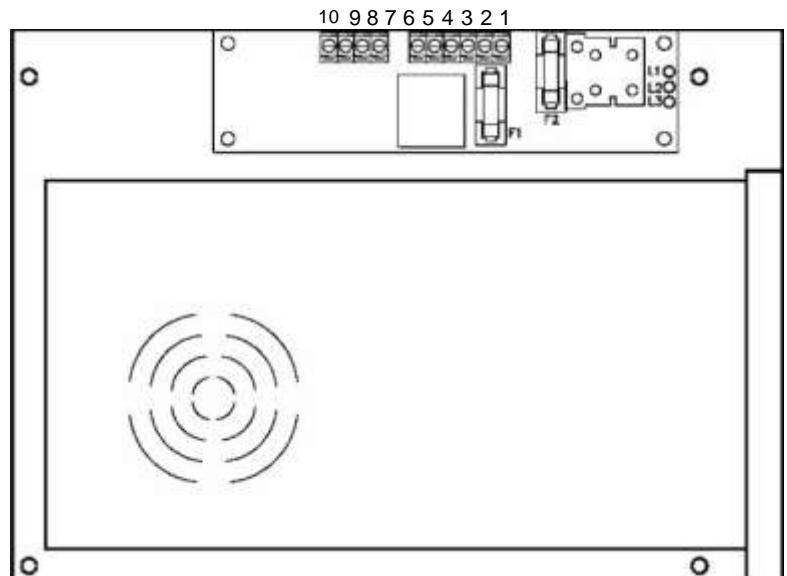
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Terminal block M1	
L, N	Mains input 230V~ +10%/-15% 50Hz
	Earth
Terminal block M3	
	Power supply OK NC contact relay
	Power supply OK NC contact relay
3	Battery test input
4	+ 12V output (option)
5	Presence of mains output.
6	Positive voltage in case of presence of mains.
7	+ 27V/4Amax output
8	+ 27V/4Amax output
9	- 27V/4Amax output
9	- 27V/4Amax output



L1	LED power supply OK
L2	LED presence of 12V
L3	LED presence of mains
F1	Input mains fuse – 3,15A temporised – 5x20 type
F2	Battery fuse – 16A temporised – 5x20 type
Terminal 1	+ 24V battery
Terminal 2	- 24V battery
Terminal 3	+ 24V output
Terminal 4	+ 24V output
Terminal 5	- 24V output
Terminal 6	- 24V output
Terminal 7	- output
Terminal 8	+ 24V output
Terminal 9	+ 12V output
Terminal 10	Presence of mains output
Mains terminal	Earth – 230V~



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